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INDEX TO AMERICAN BOTANICAL LITERATURE

1918

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Appleman, C. O. Respiration and catalase activity in sweet corn. Am. Jour. Bot. **5**: 207-209. f. 1. 16 My 1918.

Arthur, J. C. New species of Uredineae—X. Bull. Torrey Club **45**: 141-156. 1 My 1918.

New species are described in *Uromyces* (2), *Puccinia* (8), *Aecidium* (10), and *Uredo* (3).

Arthur, J. C. Uredinales of Costa Rica based on collections by E. W. D. Holway. Mycologia **10**: 111-154. My 1918.

New species are described in *Ravenelia* (1), *Uromyces* (3), *Puccinia* (13), *Aecidium* (3), and *Uredo* (2).

Arthur, J. C. Uredinales of the Andes, based on collections by Dr. and Mrs. Rose. Bot. Gaz. **65**: 460-474. 15 My 1918.

Includes the new genus *Cleptomyces* and new species in *Sphenospora* (1), *Puccinia* (4), and *Aecidium* (1).

Ashe, W. W. Notes on southern woody plants. Torreya **17**: 71-74. 8 My 1918.

Vaccinium Margarettae sp. nov. is described.

Atkinson, G. F. Some new species of *Inocybe*. Am. Jour. Bot. **5**: 210-218. 16 My 1918.

Twenty-four new species are described.

Blake, S. F. Note on the proper name for the sassafras. Rhodora **20**: 98, 99. 1 My 1918.

- Britton, E. G.** "The catkin-hypnum, with long hoses." *Bryologist* **21**: 32. 30 Ap 1918.
- Britton, E. G.** Mosses from Florida collected by Severin Rapp. *Bryologist* **21**: 27, 28. 30 Ap 1918.
- Britton, N. L.** John Adolph Shafer. *Jour. N. Y. Bot. Gard.* **19**: 97-99. My 1918.
- Britton, N. L.** A red pine plantation. *Jour. N. Y. Bot. Gard.* **19**: 105-106. My 1918.
- Brandes, E. W.** Anthracnose of lettuce caused by *Marssonina panattoniana*. *Jour. Agr. Research* **13**: 261-280. *pl. C*, 20 + *f.* 1-4. 29 Ap 1918.
- Brotherton, W. Jr., & Bartlett, H. H.** Cell measurement as an aid in the analysis of quantitative variation. *Am. Jour. Bot.* **5**: 192-206. *f.* 1, 2. 16 My 1918.
- Buchanan, R. E.** Bacterial phylogeny as indicated by modern types. *Am. Nat.* **52**: 233-246. *f.* 1-3. F 1918.
- Burnham, S. H.** Lichens of the Berkshire Hills, Massachusetts. *Bryologist* **21**: 29-32. 30 Ap 1918.
- Burt, E. A.** Corticiums causing *Pellicularia* disease of the coffee plant, Hypochnose of pomaceous fruits, and *Rhizoctonia* disease. *Ann. Missouri Bot. Gard.* **5**: 119-132. *f.* 1-3. 1 Ap 1918.
- Coville, F. V., & Blake, S. F.** Notes on District of Columbia Juncaceae. *Proc. Biol. Soc. Washington* **31**: 45, 46. 16 My 1918.
- Cowgill, H. B.** Studies in inheritance in sugar cane. *Jour. Dept. Agr. Porto Rico* **2**: 33-41. Ja 1918.
- Ducke, A.** As especies de *Massaranduba* (genero *Mimusops* L.) descritas pelo botanico brasileiro Francisco Freire Allemão. *Arch. Jard. Bot. Rio de Janeiro* **2**: 11-16. *pl.* 2A. 1918.
Includes *Mimusops huberi* sp. nov.
- Duggar, B. M., & Bonns, W. W.** The effect of Bordeaux mixture on the rate of transpiration. *Ann. Missouri Bot. Gard.* **5**: 153-174. Ap 1918.
- Emig, W. H.** Mosses as rock builders. *Bryologist* **21**: 25-27. *pl.* 15, 16. 30 Ap 1918.
- Enlows, E. M. A.** A leafblight of *Kalmia latifolia*. *Jour. Agr. Research* **13**: 190-212. *pl.* 14-17 + *f.* 1, 2. 15 Ap 1918.
- Fairman, C. E.** Notes on new species of fungi from various localities—II. *Mycologia* **10**: 164-167. My 1918.
Includes new species in *Phoma* (1), *Phomopsis* (1), *Sphaeropsis* (2), *Camarsporium* (1), *Rhabdospora* (1), *Microdiplodia* (1), *Hendersonia* (1), *Dictyochora* (1), *Platystomum* (1).

- Fernald, M. L.** *Rosa blanda* and its allies of northern Maine and adjacent Canada. *Rhodora* **20**: 90-96. 1 My 1918.
Rosa johannensis and *R. Williamsii*, spp. nov., are described.
- Freeman, G. F.** Producing bread making wheats for warm climates. *Jour. Heredity* **9**: 211-226. f. 12-16. 25 My 1918.
- Gates, R. R.** A systematic analytical study of certain North American Convallariaceae, considered in regard to their origin through discontinuous variation. *Ann. Bot.* **32**: 253-257. Ap 1918.
- Gleason, H. A.** The local distribution of introduced species near Douglas Lake, Michigan. *Torreyia* **18**: 81-89. 4 Je 1918.
- Hall, H. M.** Walnut pollen as a cause of hay fever. *Science II.* **47**: 516, 517. 24 My 1918.
- Hansen, A. A.** Preserving our wild flowers. *Torreyia* **18**: 65-69. 8 My 1918.
- Harper, R. M.** Changes in the forest area of New England in three centuries. *Jour. Forestry* **16**: 442-452. f. 1. Ap 1918.
- House, H. D.** Report of the state Botanist 1916. N. Y. State Mus. Bull. 197: 1-122. f. 1-12. 1 My 1918.
Includes new species in *Cercospora* (1), *Coryneum* (1), *Cryptospora* (1), *Cryptosporium* (1), *Dendrodochium* (1), *Diplodia* (2), *Eutypella* (1), *Gloeosporium* (1), *Leptosphaeria* (1), *Massarinula* (1), *Microdiplodia* (1), *Phoma* (1), *Ramularia* (1), *Septoria* (3), *Sphaeropsis* (3).
- Humbert, E. P.** A striking variation in *Silene noctiflora*. Bull. Torrey Club **45**: 157, 158. f. 1, 2. 1 My 1918.
- Humbert, J. G.** Tomato diseases in Ohio. Ohio Agr. Exp. Sta. Bull. 321: 159-196. f. 1-12. F 1918. [Illust.]
- Humphrey, H. B., & Potter, A. A.** Cereal smuts and the disinfection of seed grain. U. S. Dept. Agr. Farm. Bull. 939: 1-28. f. 1-16. Ap 1918.
- Husmann, G. C.** Girdling the Corinth grape to make it bear. *Jour. Heredity* **9**: 201-210. f. 5-11. 25 My 1918.
- Ishikawa, M.** Studies on the embryo sac and fertilization in *Oenothera*. *Ann. Bot.* **32**: 279-317. pl. 7 + f. 1-14. Ap 1918.
- Jensen, G. H.** Studies on morphology of wheat. Washington Agr. Exp. Sta. Bull. 150: 1-21. pl. 1-5. Mr 1918.
- Jensen, L. P.** A plea for the preservation of our native plants. *Gard. Chrom. Am.* **22**: 147-149. My 1918.
- Jones, F. R.** Yellow-leafblotch of alfalfa caused by the fungus *Pyrenopeziza medicaginis*. *Jour. Agr. Research* **13**: 307-330. pl. D, 25, 26 + f. 1-6. 6 My 1918.

- Lee, H. N., & Hovey, R. W.** The principal properties, structure and identification of Canadian pulpwoods. *Pulp & Paper Mag.* **16**: 419-422. *f.* 1-6. 9 My 1918.
- Lehman, S. G.** Conidial formation in *Sphaeronema fimbriatum*. *Mycologia* **10**: 155-163. *pl.* 7. My 1918.
- Levy, D. J.** A station for *Ephemerum* near New York City. *Bryologist* **21**: 33. 30 Ap 1918.
- Lipman, C. B., & Gericke, W. F.** Copper and zinc as antagonistic agents to the "alkali" salts in soils. *Am. Jour. Bot.* **5**: 151-170, *f.* 1, 2. 16 My 1918.
- Löfgren, A.** Novas contribuições para as Cactaceas brasileiras sobre os generos *Zygocactus* a *Schlumbergera*. *Arch. Jard. Bot. Rio de Janeiro* **2**: 19-32. *pl.* 3-6. 1918.
Zygocactus candidus sp. nov. is described.
- Löfgren, A.** Novas contribuições para o genero *Rhipsalis*. *Arch. Jard. Bot. Rio de Janeiro* **2**: 35-45. *pl.* 7-17. 1918.
Six new species are described.
- Löfgren, A.** Novas subsidios para a flora Orchidacea do Brasil. *Arch. Jard. Bot. Rio de Janeiro* **2**: 49-62. *pl.* 18-26. 1918.
Includes new species in *Pleurothallus* (8), *Epidendrum* (1), *Leptotes* (1), and *Maxillaria* (1).
- Long, W. H.** An undescribed canker of poplars and willows caused by *Cytospora chrysosperma*. *Jour. Agr. Research* **13**: 331-345. *pl.* 27, 28. 6 My 1918.
- Long, W. H., & Harsch, R. M.** Aecial stage of *Puccinia oxalidis*. *Bot. Gaz.* **65**: 475-478. 15 My 1918.
- Ludwig, C. A.** The effect of tobacco smoke and of methyl iodide vapor on the growth of certain microorganisms. *Am. Jour. Bot.* **5**: 171-177. 16 My 1918.
- Maxon, W. R.** A new hybrid *Asplenium*. *Am. Fern. Jour.* **8**: 1-3. Mr 1918.
Asplenium Gravesii hybr. nov.
- McAtee, W. L.** Note on the plants of Wallop's Island, Virginia. *Torreyia* **18**: 70, 71. 8 My 1918.
- McColl, W. R.** The male fern at Owen Sound, Ontario. *Am. Fern Jour.* **8**: 18, 19. Mr 1918.
- Millsbaugh, C. F., & Sherff, E. E.** New species of *Xanthium* and *Solidago*. *Field Mus. Nat. Hist. Publ.* 199: 1-7. *pl.* 1-6. 22 Ap 1918.
Six new species are described.
- Mosher, E.** The grasses of Illinois. *Illinois Agr. Exp. Sta. Bull.* 205; 261-425. *f.* 1-287. Mr 1918.

- Murrill, W. A.** Illustrations of fungi—XXVIII. *Mycologia* **10**: 107–110. *pl.* 6. My 1918.
Pycnoporus cinnabarinus, *Poronidulus conchifer*, *Polyporus Polyporus*, *Bjerkandera adusta*, *Tyromyces amorphus* and *Cerrena unicolor*, are illustrated in color.
- Nichols, G. E.** Additions to the list of bryophytes from Cape Breton. *Bryologist* **21**: 28, 29. 30 Ap 1918.
- Osner, G. A.** *Stemphylium* leafspot of cucumbers. *Jour. Agr. Research* **13**: 295–306. *pl.* 21–24 + *f.* 1–3. 29 Ap 1918.
- Osterhout, G. E.** A new *Hymenopappus* from Colorado. *Torreyia* **18**: 90. 4 Je 1918.
Hymenopappus polycephalus sp. nov.
- Parr, R.** The response of *Pilobolus* to light. *Ann. Bot.* **32**: 177–205. *f.* 1–4. Ap 1918.
- Payson, E. B.** Notes on certain Cruciferae. *Ann. Missouri Bot. Gard.* **5**: 143–151. Ap 1918.
Includes *Physaria Osterhoutii*, *Dithyrea membranacea* and *D. clinata* spp. nov.
- Porto, P. C.** Um caso de hybridação natural. *Arch. Jard. Bot. Rio de Janeiro* **2**: 65, 66. *pl.* 27. 1918.
- Pratt, O. A.** Soil fungi in relation to diseases of the Irish potato in southern Idaho. *Jour. Agr. Research* **13**: 73–100. *pl.* A., B. + *f.* 1–4. 8 Ap 1918.
- Prince, S. F.** Fern notes. *Am. Fern Jour.* **8**: 4–8. Mr 1918.
- Rangel, E.** Alguns fungos novas do Brasil. *Arch. Jard. Bot. Rio de Janeiro* **2**: 69–71. *pl.* 28–30. 1918.
New species are described in *Puccinia* (3), *Septoria* (1), *Cercospora* (1), and *Helmintosporium* (1).
- Ransier, H. E.** More pleasures from old fields. *Am. Fern Jour.* **8**: 8–12. *pl.* 1, 2. Mr 1918.
- Record, S. J.** Intercellular canals in dicotyledonous woods. *Jour. Forestry* **16**: 429–441. *f.* 1–8. Ap 1918.
- Roberts, J. W., & Pierce, L.** Apple bitter rot and its control. *U. S. Dept. Agr. Farm. Bull.* 938: 1–14. *f.* 1–3. Ap 1918.
- Rock, J. F.** New species of Hawaiian plants. *Bull. Torrey Club* **45**: 133–139. *pl.* 6. 1 My 1918.
Includes new species in *Cyanea* (2), *Lobelia* (1), and *Straussia* (1).
- Sargent, C. S.** Notes on North American trees—I. *Quercus*. *Bot. Gaz.* **65**: 423–459. 15 My 1918.
One new species and many new varieties and new hybrids are described.
- Seaver, F. J.** The black locust tree and its insect enemies. *Jour. N. Y. Bot. Gard.* **19**: 100–104. *pl.* 212. My 1918.

- Sherbakoff, C. D.** Tomato diseases. Florida Agr. Exp. Sta. Bull. 146: 119-132. f. 32-44. Mr 1918.
- Shive, J. W., & Martin, W. H.** A comparison of salt requirements for young and for mature buckwheat plants in water cultures and sand cultures. Am. Jour. Bot. 5: 186-191. 16 My 1918.
- Shufeldt, R. W.** The much-despised skunk cabbage—earliest of spring flowers. Am. Forestry 24: 225-231. f. 3-12. Ap 1918.
- Silveira, A. A. da.** Contribuição para as Eriocaulaceas brasileiras. Arch. Jard. Bot. Rio de Janeiro 2: 7, 8. pl. 1, 2. 1918.
Includes descriptions of *Paepalanthus densifolius* and *P. capanemae*, spp. nov.
- Sinnott, E. W.** Evidence from insular floras as to the method of evolution. Am. Nat. 52: 269-272. F 1918.
- Small, J. K.** Ferns of tropical Florida. i-ix + 1-80. pl. 1-5. New York. 1918. [Illust.]
Pycnodoria pinetorum sp. nov. is described.
- Smith, G. M.** The vertical distribution of *Volvox* in the Plankton of Lake Monona. Am. Jour. Bot. 5: 178-185. 16 My 1918.
- Stevens, F. L., & Anderson, H. W.** Protect the wheat crop. Eradicate the common barberry from Illinois. Illinois Agr. Exp. Sta. Ext. Circ. 22: 1-4. f. 1-3. Ap 1918.
- Stewart, F. C.** The velvet-stemmed *Collybia*—a wild winter mushroom. N. Y. Agr. Exp. Sta. Bull. 448: 79-98. pl. 1-10. F 1918. [Illust.]
- Stevenson, J. A.** The green muscardine fungus in Porto Rico. Jour. Dept. Agr. Porto Rico 2: 19-32. pl. 1. Ja 1918.
- Sumstine, D. R.** Fungi of Chautauqua County, N. Y. N. Y. State Mus. Bull. 197: 111-118. 1 My 1918.
- Truog, E.** Soil acidity—I. Its relation to the growth of plants. Soil Sci. 5: 169-195. Mr 1918.
- Turner, W. F.** *Nezara viridula* and kernel spot of pecan. Science II. 47: 490, 491. 17 My 1918.
- Vinall, H. N., & Reed, H. R.** Effect of temperature and other meteorological factors on the growth of sorghums. Jour. Agr. Research 13: 133-148. pl. 11, 12. 8 Ap 1918.
- Vries, H. de.** Mass mutations and twin hybrids of *Oenothera grandiflora* Ait. Bot. Gaz. 65: 377-422. f. 1-6. 15 My 1918.
- Vries, H. de.** Mass mutation in *Zea Mays*. Science II. 47: 465-467. 10 My 1918.
- Weir, J. R.** Effects of mistletoe on young conifers. Jour. Agr. Research 12: 715-718. pl. 37. 18 Mr 1918.